



**IN THE
UNITED STATES
PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Swoboda, et al.

CASE: OST-051302

SERIAL NO.: 10/565,753

FILED ON: January 23, 2006

FOR: DEVICE FOR HARDENING A
COATING OF AN OBJECT, WHICH
IS MADE OF A MATERIAL
HARDENING UNDER
ELECTROMAGNETIC
RADIATION, ESPECIALLY A UV
LACQUER OR A THERMALLY
HARDENING LACQUER

**STATEMENT OF BASIS
FOR RELEVANCE OF
FOREIGN LANGUAGE
DOCUMENTS
IDENTIFIED IN
SUBMITTED PTO-1449**

Mail Stop Amendment
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

ATTENTION OF: Art Unit

EXAMINER:

Dear Examiner:

If any charges or fees must be paid in connection with the following communication, they may be paid out of our Deposit Account No. 50-0545.

PUBLICATION NO.	PUBLICATION DATE	BASIS FOR RELEVANCE
DE10157554	06/12/2003	An installation for radiation hardening components, consists of a radiation chamber (2) which contains at least one radiation unit (10) that emits radiation, and an inert gas supply to the chamber. An installation for radiation hardening components, consists of a radiation chamber (2) which contains at least one radiation unit (10) that emits radiation, and an inert gas supply to the chamber. The inert gas supply consists of a nozzle (13) with an outlet opening (19). A transport unit is used to move the components to be irradiated into the chamber, and can rotate and/or slide them.

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The gas nozzle is ring shaped and located around the outer circumference of the radiation unit. The radiation unit emits electrons or ultraviolet radiation.

DE19941184

03/01/2001

The inventive paint dryer, comprises a cabin (12) for housing objects (15) that are to be painted and dried. At least one fresh air supply (8) is provided in order to introduce fresh air into an air circulation system pertaining to the dryer (1) resulting in the circulation of said air. At least one pure gas supply line (7) is provided, wherein thermally cleaned and heated waste air is introduced as a pure gas, thereby maintaining the waste gas circulated in the circulation system at the desired temperature in such a way that objects (15) arranged in the cabin (12) can be dried by radiation and/or convection. The pure gas supply line (7) is surrounded by the fresh air supply line (8) at least along a longitudinal pipe segment and at least in said longitudinal pipe section the pure gas supply pipe (7) is constructed in such a way as to allow for the transmission of heat to fresh air flowing into the fresh air supply (8). The invention also relates to a paint dryer unit comprising several paint dryer modules which are positioned one after the other and configured as paint dryers according to the invention.

DE19503775

03/14/1996

The infra red radiator units are contained in a drying room, and are arranged to match the shape of the object being treated. Drying is in two stages: in the first drying phase, some of the infra red radiators (17, 18a-f) are arranged to suit the shape of the object being dried and some are movable. In the first stage, the heating and drying is carried out only up to a certain degree of drying. The object is then conveyed longitudinally into a second drying room and dried off completely with stationary infra red heaters. The two drying rooms are positioned in a straight line on a production line on one plane behind one another.

DE4330453	03/16/1995	<p>The drying radiator has several IR radiation sources and is adjustable mounted into several freedom degrees for irradiating the drying surfaces, using a holder. The surface irradiating IR main radiator module (4) has at least one extra radiation module (5, 6), individually adjustable in the main radiation sense, coupled via arrestable joints (7). The used arrester has a control input for arrester signals, coupled to the output of a controller. The controllable adjuster has an angle adjusting control input for adjusting signals, which is coupled to the controller output. At least one controller has a decoder for input digital values, coupled to a converter generating control signals for the controllers. The decoder has an input for optically transmitted digital values.</p>
DE4312892	10/27/1994	<p>The plant has a set of infra-red radiators (17, 19) grouped around the car, and individual radiators can be controlled. The radiators are fixed in position inside a cabin (10) and the car is driven onto a platform (15) which is then raised by a scissors jack (14) into the cabin. The radiators are arranged so as to match the contour of the car, being located near the sides, the roof, the hood (bonnet), trunk (boot) lid and the rear panel.</p>
DE4001280	07/25/1991	<p>A device for treating the surfaces of workpieces with light beams, comprising a reflector and an arc lamp, can treat large areas of workpieces. To this end, the reflector (1) has an elliptical cylindrical surface (11). A powerful long-arc lamp (2) is arranged at or near the focus of said surface nearer the reflector. The workpiece (3) to be treated is arranged on or near the line focus (4) remote from the reflector, on which the surface (11) focuses the light. The reflector can be tilted in several directions in relation to the surface of the workpiece so that the treatment track width</p>

can be adjusted and the heat in the radiation focus controlled. In addition, diaphragms and mirrors for reducing the irradiated surface are provided.

DE3010821 10/08/1987

Synthetic resin finishes are cured by irradiating with ions, particularly electrons, and in an inert atmosphere to prevent interference of the cure by reaction with oxygen. The article to be treated passes through an airlock into a first vacuum/inert gas chamber before entering the adjacent irradiation chamber which itself contains inert gas at normal pressure, the first chamber is evacuated and then filled with inert gas at normal pressure, after irradiation in the second chamber the article returns to the vacuum/inert gas chamber and finally passes out when the intermediate airlock between the two chamber is closed. Method minimizes volume of inert gas used without allowing air to enter, suitable for e.g. acrylic prepolymers and other finishes on vehicle bumpers.

DE10224514 12/18/2003

The process involves applying a coating material (2) to a substrate (1) and exposing the material to an inert gas atmosphere (3) by a gas concentration section (5). The coating material is irradiated with ultraviolet (UV) radiation (4) from a light source (6). The light source and concentration section are adapted to contour (17) of the substrate. The distance of the gas section from the substrate (A) is regulated. An Independent claim is also included for an apparatus for curing coating material.

DE19957900 06/07/2001

The invention relates to a method for producing molding materials and coatings on substrates by curing radiation curable materials under a protective gas, by irradiation with light. The method is characterized in that said protective gas is a gas that is heavier than air and in that the protective gas is prevented from escaping sideways during the radiation curing by a

suitable device or measures.

DD8211	09/06/1954	An infrared radiation oven uses emitters 1 and reflective surfaces 2, 3. The purpose of the reflective surfaces 2, 3 is to prevent direct irradiation of the emitters 1 onto the objects to be dried. For that, reflective surfaces 2, 3 are mounted rotably inside the oven. Aluminum is used as reflective material.
EP1264642	05/31/2002	Paint application is followed by two stage drying involving infra-red and circulating air drying. Air drying continues until a specific state of paint cure has been reached. The following infra-red drying stage, preferably using one or more NIR (near infra-red) emitters, continues the cure of paint in areas accessible to the radiation. An Independent claim is also included for the process equipment which comprises a first, air drying chamber and a second, NIR drying chamber. Components to be dried are independently passed through both chambers by conveyors.
FR2806153	03/09/2000	A car body (1) is brought to supports (4) by a sling (2) and the underside is heated by infra-red elements (7). The infra-red elements are supported on stainless steel panels (5) which are located at the side of the bodies sloping inwards at an angle of 45 degrees. Air is circulated past the infra-red elements, heated in a space created by a quartz glass panel, directed to the car body and then recirculated.
FR1048715	04/02/1951	An infrared drying apparatus with elongate metallic elements 1 is heated by electric heating resistors 5. Calottes 2 in the radiating elements 1, serve to made radiation 3 more diffuse. The heating resistors 5 are covered on their back side by an isolating material 6 which is followed by a thin layer of aluminum 7 in order to reflect infrared radiation 3.

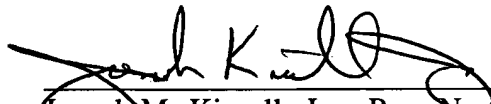
DE29811072

10/08/1998

The installation comprises a portal (10) inside of which are located infrared radiators, and where the portal is movable in the longitudinal direction of the motor car by means of a drive device. The portal in the longitudinal direction of the motor car to be dried (15) has several independently heatable radiator groups (11, 12), of which at least one group is lowerable or raisable by means of a lift device (13), independently of the height position of the other group. At least one of the radiator groups, and preferably both in their height position is/are pivotable in their height position by an additional pivoting device (16) from a horizontal starting position into an inclined position. At least two further paired radiator groups (18) are provided, which are movable towards one another in the manner of a sliding door along a guide device running horizontally crossways in the upper area of the portal.

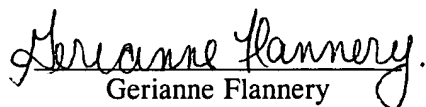
Respectfully submitted,

Dated: March 22, 2007


Joseph M. Kinsella Jr. Reg. No. 45743
One of Attorneys for Applicant

CERTIFICATE OF MAILING

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Gerianne Flannery



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**INFORMATION
DISCLOSURE
STATEMENT**

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EXAMINER:

This Information Disclosure Statement ("IDS") is submitted pursuant to 37 CFR § 1.56.

The filing of this "information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)." See 37 CFR § 1.97(h).

Because the IDS is being provided before the receipt of the first Office Action, Applicant submits the IDS without fee.


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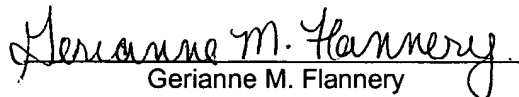
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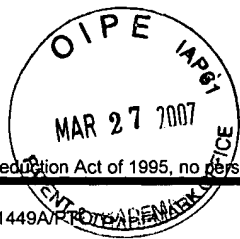
Joseph M. Kinsella Jr. Reg. No. 45,743
One of the Attorneys for the Applicant

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PTO/SB/08a (07-06)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/565,753
		Filing Date	1/23/2006
		First Named Inventor	Swoboda et al.
		Art Unit	
Examiner Name		Attorney Docket Number	OST-051302
Sheet	1	of	2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 4,530,165	07/23/1985	Tiedemann	
		US- 4,772,374	09/20/1988	Urquhart, et al.	
		US- 5,060,594	10/29/1991	Tomioka, et al.	
		US- 5,070,625	12/10/1991	Urquhart	
		US- 5,245,763	09/21/1993	Neikter	
		US- 5,722,761	03/03/1998	Knight	
		US- 6,394,796	05/28/2002	Smith	
		US- 6,457,846	10/01/2002	Cook, et al.	
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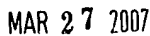
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		DE10157554	06/12/2003	Griesheim		
		DE19941184	03/01/2001	Hoffmann		
		DE19503775	03/14/1996	Kollegen		
		DE4330453	03/16/1995	Noblelight		
		DE4312892	10/27/1994	Fritz		
		DE4001280	07/25/1991	Leine		
		DE3010821	10/08/1987	Foell		
		DE10224514	12/18/2003	Kahlhofer		
		DE19957900	06/07/2001	Basf		
		DD8211	09/06/1954	Blaschek		
		EP1264642	05/31/2002	Audi		
		FR2806153	09/09/2000	Salame		
		FR1048715	04/02/1951	Metzger		
		DE29811072	10/08/1998	Fritz		
		WO02/095311	11/28/2002	Bergaglio		
		EP0851193	12/22/1997	Feroces		

Examiner Signature	Date Considered
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Sheet

2

of

2

Complete if Known

Application Number

10/565753

Filing Date

1/23/2006

First Named Inventor

Swoboda et al.

Art Unit

Examiner Name

Attorney Docket Number

QST-051302

NON PATENT LITERATURE DOCUMENTS

Examiner
Initials*Cite
No.

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

 T^2

International Preliminary Report on Patentability; Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability and a copy of the Written Opinion of the International Searching Authority.

Copy of German Office Action (5 pages).

United States Publication No. US2003/163932, Samekawa, published September 4, 2003.

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